

SICK AG

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**Abstract**

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The invention relates to a laser scanning apparatus, in particular for distance determination, comprising a transmission unit which has a pulsed laser for the transmission of a light beam into a zone to be monitored, comprising a light deflection unit to deflect the light beam transmitted by the pulsed laser into the zone to be monitored, comprising a reception unit for the reception of light pulses which are reflected by an object located in the zone to be monitored, and comprising a front screen which transmits the light beam and which separates the transmission unit, the reception unit and the light deflection unit from the surroundings of the laser scanning apparatus, with at least one optical element being provided which splits off a part beam from the transmitted light beam and deflects the part beam to a photo-detector for a measurement of the transmission of the front screen.

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